

## PRODUCTION OF ANTIMICROBIAL PAPER, ANTIMICROBIAL PAPER AND PRODUCTION OF ANTIMICROBIAL CORRUGATED BOARD

**Patent number:** JP2000248495  
**Publication date:** 2000-09-12  
**Inventor:** KIKUCHI TOSHIYUKI  
**Applicant:** RENGO CO LTD  
**Classification:**  
- **International:** D21H21/36; D21H19/20  
- **european:**  
**Application number:** JP19990056260 19990303  
**Priority number(s):**

### Abstract of JP2000248495

**PROBLEM TO BE SOLVED:** To obtain an antimicrobial paper having excellent antimicrobial properties by using a p-hydroxy benzoic acid ester as an antimicrobial agent, to provide both a method for producing the antimicrobial paper and a method for producing an antimicrobial corrugated board.

**SOLUTION:** The surface of a paper to be subjected to antimicrobial treatment is coated with a coating solution containing at least p-hydroxybenzoic acid ester and a polyhydric aliphatic alcohol. Generally a 2-3C polyhydric aliphatic alcohol, especially glycerol is preferably used as the polyhydric aliphatic alcohol. After the coating of the coating solution, the paper may be coated with a varnish. In the case of producing an antimicrobial corrugated board, a corrugated board liner coated with the coating solution containing at least the p-hydroxybenzoic acid ester and the polyhydric aliphatic alcohol and further coated with a varnish comprising a PVA as a film-forming polymer is prepared and is laminated to both the sides of a core paper having a corrugated section.

---

Data supplied from the **esp@cenet** database - Patent Abstracts of Japan

**14. Antibacterial paper and paperboard or corrugated board and antibacterial coating for their manufacture**

**CAS SECTION- 143**

**CAS SUBSECTION- 007**

CAS 133-17 133-239589 133:239589 NDN- 213-0410-7921-7

**INVENTOR(S)-** Kikuchi, Toshiyuki

2000-09-12

9 page(s)

**PATENT NUMBER-** 2000248495

**PATENT APPLICATION NUMBER-** 1999-56260/A2

**DATE FILED-** 1999-03-03

**DOCUMENT TYPE-** Patent; Primary Pub. Type - Patent

**CODEN-** JKXXAF

**CORPORATE AUTHOR-** JP, Japan

**COUNTRY-** JP

**PATENT TYPE-** Jpn. Kokai Tokkyo Koho

**PATENT ASSIGNEE(S)-** Rengo Co., Ltd.

**INTERNATIONAL PATENT CLASS-** D21H0213600; D21H0192000

**SUBFILE CODE-** MAC

**LANGUAGE-** Japan

Copyright 2002 by American Chemical Society

**NO-ABSTRACT**

**IDENTIFIER(S)-** antibacterial coating hydroxybenzoate ester polyhydric alc paper

**CAS REGISTRY/EC NUMBER(S)-** 56-81-5      **HEADING PARENT-** 1,2,3-Propanetriol

**CAS REGISTRY/EC NUMBER(S)-** 94-13-3      **HEADING PARENT-** Benzoic acid --4-hydroxy-

**CAS REGISTRY/EC NUMBER(S)-** 94-26-8      **HEADING PARENT-** Benzoic acid --4-hydroxy-

**CAS REGISTRY/EC NUMBER(S)-** 4247-02-3      **HEADING PARENT-** Benzoic acid --4-hydroxy-